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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,378	07/17/2003	Michael David Schmitz	06975-383001	9706
26171	7590	05/19/2005	EXAMINER	
FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			TRAN, DALENA	
			ART UNIT	PAPER NUMBER
			3661	
DATE MAILED: 05/19/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/620,378	Applicant(s) SCHMITZ, MICHAEL DAVID	
	Examiner Dalena Tran	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 February 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-50 is/are allowed.
- 6) ☒ Claim(s) 51-57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2/24/05</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Notice to Applicant (s)

1. This office action is responsive to the amendment filed on 2/24/05. As per request, claims 1-6, 23-31, 35, 37-47 have been amended. Claims 48-57 have been added. Thus, claims 1-57 are pending.
2. The prior art submitted on 2/24/05 has been considered.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 51-55, and 57, are rejected under 35 U.S.C.103(a) as being unpatentable over Behr et al. (US 2003/0156049 A1).

As per claim 51, Behr et al. disclose a method for displaying driving directions having multiple maneuvers, the method comprising: accessing maneuver information that includes driving directions for a route from an origin to a destination (see at least [0012] through [0018]; and [0033] through [0037]), determining the existence within the maneuver information of multiple consecutive driving directions involving a particular road (see at least [0099]; and [0103] through [0108]), for a group of multiple consecutive driving directions involving the particular road, presenting at least one instance of a road-related graphic (see at least [0039]; [0091] through [0094]; and [0107] to [0108]). Behr et al. do not explicitly disclose wherein the number of separate instances of the road related graphic presented is fewer than a number of consecutive directions within the

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group that involve the particular road. However, Behr et al. disclose in figure 39, and associate text ([0116]). In figure 39, instead of having 2 separate maneuver arms: a set of maneuver arm for the Broad-to-Main turn, and another set of maneuver arm for the Elm-to-Main turn (maneuver arms defined as graphical representation of an intersection to be traversed, see [0091]); Behr et al.'s invention generated a single combined maneuver arms display. The textual instruction can be displayed detailed in a separate 2 or 3 lines instructions, so the driver can follow step by step to avoid confusion, for example:

- Turn slight right at the corner of Broad Street and Elm Street
- Drive a short distance.
- Then turn left at the intersection of Elm Street and Main Street.

Behr et al. also disclose the driving instructions will contain several lines of text, and maneuver arms display; however, if arms are not requested the complete text instruction will be display only (see [0099]). Therefore, by combining a single maneuver arms display, but still display detail the text instruction; or if arms are not requested the complete text instruction will be display only, Behr et al. capable of displaying the number of separate instances of the road-related graphic presented is fewer than a number of consecutive directions within the group that involve the particular road. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement the system disclosed by Behr et al. by displaying the number of separate instances of the road-related graphic presented is fewer than a number of consecutive directions within the group that involve the particular road, so to transmit fewer graphical present than consecutive direction. This will reduce data transmission and storage

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requirements, thus, a relatively low bandwidth channel maybe used for transmitting, and the cost of transmitting will reduce if only a small amount of graphic is transmitted.

As per claim 52, Behr et al. disclose the road-related graphic corresponding to the road comprises a graphical representation of the road (see at least [0039]; and [0110]).

As per claim 53, Behr et al. disclose only one road-related graphic is presented corresponding to the multiple consecutive mapping directions within the group (see at least [0099]; and [0111] through [0113]).

As per claim 54, Behr et al. disclose the one road-related graphic is visually oriented corresponding to a first of the multiple consecutive mapping directions in the group (see at least [0091] through [0094]; and [0107] to [0108]).

As per claim 55, Behr et al. disclose mapping directions comprises text information (see at least [0087]).

As per claim 57, Behr et al. disclose a particular road is a highway, and the road-related graphic has substantially the same appearance as a highway road sign and includes a road number associated with the highway (see at least [0039]). It is well known that the highway road sign and includes a road number associated with the highway.

5. Claim 56, is rejected under 35 U.S.C.103(a) as being unpatentable over Behr et al. (US 2003/0156049 A1) in view of Pu et al. (US 2001/0056325 A1).

As per claim 56, Behr et al. disclose a particular road is a highway. Behr et al. do not disclose a particular road is an interstate. However, Pu et al. disclose a particular road is an interstate (see at least [0080]). Pu et al. do not disclose the road-related

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graphic. However, Behr et al. disclose providing the graphical display along with textual display travel instruction of highway signs (see [0039]). Also, it is well known that the use of picture, symbols, words, or phrases, etc. can be stored in a database, and scripts or programs display database contents based on user input. Anytime, when a user connect to Internet to request for a driving direction, the web server will connect to a database that stored picture, symbols, words, or phrases, then will output a driving direction associated with each symbol. Therefore, Behr et al. capable of display the road-related graphic has substantially the same appearance as an interstate road sign and includes a road number associated with the interstate. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement the functions discloses by Behr et al. to associate an interstate shield route symbol in a list of maneuvers for the route to help the driver quickly recognize the turn or exit on the route in the driving direction.

6. Claims 1-50, are allowable.

Remarks

7. Applicant's argument filed on 2/24/05 has been fully considered. Upon updated search, the new ground of rejection has been set forth as above.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 571-272-6968. The examiner can normally be reached on M-F 6:30 AM-4:00 PM), off every other Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner
Dalena Tran



May 12, 2005